

SYSTEM AND METHOD FOR REMOTELY DETECTING AND LOCATING DAMAGED CONDUCTORS IN A POWER SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A system is provided for remotely detecting and locating damaged conductors. The system includes at least one slave controller disposed proximate at least one load and electrically connected to the loads via at least one conductor. The slave controller includes at least one solid-state switch capable of controllably altering the input current to the loads, as well as at least one measuring element for measuring at least 10 one parameter associated with the loads and the solid-state switches. The solid-state switch can controllably alter the input current to the loads according to the parameters. The system also includes at least one damaged wire detector electrically connected to the conductors between the slave controller and the loads. The damaged wire detector is capable of detecting and/or locating at least one damaged conductor.

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